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L1: Entry 1 of 7

File: USPT

Apr 10, 1990

US-PAT-NO: 4916004

DOCUMENT-IDENTIFIER: US 4916004 A

TITLE: Cement board having reinforced edges

DATE-ISSUED: April 10, 1990

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ensminger; Robert P.	Carman	IL		
McCleary; Robert E.	Geneva	IL		
Wenzlow-Lukasch; Ludwig	Deerfield	IL		

US-CL-CURRENT: 428/192; 428/113, 428/193, 428/703

## ABSTRACT:

A cement board having bare surfaces and a mesh of reinforcing fibers underlying the top, bottom, and longitudinal edge surfaces is made continuously on an improved apparatus which comprises a pair of edger rails which slidably rest on a conveyor belt and define the path of the cement board being made on the conveyor belt and a means for folding and pressing outer margins of the bottom mesh into the edge surfaces and the top surface.

8 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[NND](#) [Draw Desc](#) [Image](#)☐ 2. Document ID: US 4544424 A

L1: Entry 2 of 7

File: USPT

Oct 1, 1985

US-PAT-NO: 4544424

DOCUMENT-IDENTIFIER: US 4544424 A

TITLE: Gypsum board manufacturing method

DATE-ISSUED: October 1, 1985

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Take; Takao	Chiba			JP
Kaneko; Katuaki	Tokyo			JP
Otozaki; Sigeo	Tokyo			JP

US-CL-CURRENT: 156/39; 156/284, 156/308.8, 156/42, 156/44, 427/482, 428/703

## ABSTRACT:

Described is a novel gypsum board and a manufacturing method therefor by first forming a particulate layer securely adhered to the base paper for the gypsum board and by utilizing an adhesion layer which has been formed by the reaction of the particulate layer for pasting the gypsum core material on the base paper for board, so that adhesion between the core material and the base paper is enhanced as well as the strength of the gypsum board itself is improved.

1 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 3. Document ID: US 4504533 A

L1: Entry 3 of 7

File: USPT

Mar 12, 1985

US-PAT-NO: 4504533

DOCUMENT-IDENTIFIER: US 4504533 A

TITLE: Gypsum construction sheet with glass fiber/non-woven felt lining sheet

DATE-ISSUED: March 12, 1985

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Altenhofer; Herbert	Iphofen			DE
Wintzheimer; Engelbert	Iphofen			DE
Neuhauser; Gerhard	Wurzburg			DE

US-CL-CURRENT: 428/70; 428/126, 428/127, 428/128, 428/129, 428/130, 428/193,  
428/194, 428/703, 428/74, 428/77

## ABSTRACT:

The invention concerns a gypsum construction board in which a gypsum core is faced with a two-layer laminate comprised of a nonwoven fiber felt and a glass fiber web of crossed glass fibers wherein the glass fiber web of crossed glass fibers is embedded in the gypsum core and the laminate is in the form of a laminate sheet which extends across the width of the board.

2 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 4. Document ID: US 4378405 A

L1: Entry 4 of 7

File: USPT

Mar 29, 1983

US-PAT-NO: 4378405

DOCUMENT-IDENTIFIER: US 4378405 A

TITLE: Production of building board

DATE-ISSUED: March 29, 1983

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pilgrim; Thomas A.	Edwalton			GB2

US-CL-CURRENT: 428/322.7; 156/42, 428/703

## ABSTRACT:

A building board comprises a core 31 of set cementitious material, such as gypsum, faced on at least one side by a fabric or web 33 of mineral fibres embedded in the face of the core and a continuous film 32 of the cementitious material having a higher density and lower porosity than the core extending over the outer face of the fabric. The film may have a smooth surface or a desired textured or figured surface. The preferred fabric or web 33 is a non-woven glass fibre tissue and it is preferred that a continuous film 32 of gypsum at the surface should not exceed 2 mm in thickness. The board is made by bringing the fabric or web into contact with the respective face of a layer of an aqueous slurry of gypsum plaster or other cementitious material, and vibrating the layer of slurry in contact with the fabric or web until slurry penetrates the web and the latter is completely embedded. The process can be carried out continuously by supporting the slurry between flexible belts which are vibrated by mechanical action applied to their faces remote from the slurry. Boards accordingly to the invention can have greater strength and/or greater resistance to fire than conventional paper-faced gypsum board.

16 Claims, 2 Drawing figures

Exemplary Claim Number: 10

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 5. Document ID: US 4020237 A

L1: Entry 5 of 7

File: USPT

Apr 26, 1977

US-PAT-NO: 4020237

DOCUMENT-IDENTIFIER: US 4020237 A

TITLE: Paper covered gypsum board and process of manufacture

DATE-ISSUED: April 26, 1977

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
von Hazmburg; Romulis S.	Laguna Hills	CA		

US-CL-CURRENT: 428/535; 156/39, 428/537.7, 428/703, 52/408

## ABSTRACT:

A paper covered gypsum board and a process for its manufacture, with at least one cover of the board comprising a multiply paper sheet containing a major proportion of cellulosic fibers and a minor proportion of short mineral fibers.

8 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 6. Document ID: US 3993822 A

L1: Entry 6 of 7

File: USPT

Nov 23, 1976

US-PAT-NO: 3993822

DOCUMENT-IDENTIFIER: US 3993822 A

TITLE: Multi-layer plasterboard

DATE-ISSUED: November 23, 1976

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Knauf; Alfons	Siersburg			DT
Knauf; Karl	Iphofen			DT
Wirsching; Franz	Iphofen, Mfr.			DT
Neuhauser; Gerhard	Mainbernheim			DT
Altenhofer; Herbert	Iphofen			DT

US-CL-CURRENT: 428/213; 156/42, 156/71, 428/312.4, 428/317.9, 428/703, 442/279

## ABSTRACT:

A multi-layered gypsum board for construction purposes in which a mixture of gypsum, water and fibers provide the center or core of the board, and a composite coating of a fiberglass layer and a layer of fiberglass fleece covers one of the major surfaces of the core, with the fiberglass layer being embedded into the mixture and plaster favorably adhering to the outer surface of the fiberglass fleece layer. The other major surface of the core may be covered with a similar coating, or a layer, for example, of pasteboard.

2 Claims, 3 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC	Draw Desc	Image
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☐ 7. Document ID: US 3944698 A

L1: Entry 7 of 7

File: USPT

Mar 16, 1976

US-PAT-NO: 3944698

DOCUMENT-IDENTIFIER: US 3944698 A

TITLE: Gypsum wallboard and process for making same

DATE-ISSUED: March 16, 1976

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dierks; Robert P.	Des Plaines	IL		
Rillie; Robert J.	Des Plaines	IL		

US-CL-CURRENT: 428/219; 156/42, 428/294.7, 428/312.4, 428/535, 428/703

## ABSTRACT:

A specially prepared fiber reinforcement and improved gypsum wallboard are disclosed. The fiber reinforcement includes a multiplicity of relatively long fibers which are disposed at the interface of the core and cover sheets of the wallboard and are adhesively bonded to the cover sheets and incorporated predominantly into the portion of the core immediately adjacent to the cover sheets.

14 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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L2: Entry 1 of 4

File: USPT

Jan 23, 2001

US-PAT-NO: 6176920

DOCUMENT-IDENTIFIER: US 6176920 B1

TITLE: Cementitious structural panel and method of its manufacture

DATE-ISSUED: January 23, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Murphy; Patrick B.	Maple			CA
Wpych; George	Maple			CA

US-CL-CURRENT: 106/711, 106/676, 264/257, 264/271.1, 264/333, 264/69, 264/71,  
264/DIG.57, 428/113, 428/193, 428/292.1, 428/294.1, 428/294.7, 428/312.4, 428/319.1,  
428/70, 428/703

## ABSTRACT:

The present invention relates to a cementitious structural panel and its method of manufacture. The method of manufacture involves encapsulating a top and bottom layer of porous reinforcing material with a cementitious mixture by vibration. The structural panel may be coated with a layer of waterproof material.

15 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMG	Draw Desc	Image
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☐ 2. Document ID: US 5225237 A

L2: Entry 2 of 4

File: USPT

Jul 6, 1993

US-PAT-NO: 5225237

DOCUMENT-IDENTIFIER: US 5225237 A

TITLE: Building sheets of cement material reinforced with plastics mesh and glass fibers

DATE-ISSUED: July 6, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Magnani; Silvio	Canneto Pavese			IT

US-CL-CURRENT: 442/57; 106/754, 428/703, 52/782.1

## ABSTRACT:

Building sheets consisting of cement, inert materials and additives, and reinforced with plastics mesh and alkali-resistant glass fibers of short and/or continuous type, including a number of superposed elementary layers consisting of a mixture of cement, inert materials and additives and each comprising as reinforcement material a plastics mesh or glass fibers. The apparatus for preparing the building sheets includes a frame, a conveyor belt, support rollers and a slide surface for the conveyor belt, an inversion roller and a drive roller, a possible feeder for a continuous support web, a series of plastics mesh feeders, a series of feeders for glass fiber originating from bobbins, a series of cement mix metering pumps, a series of cement mix distributors and a series of smoothing devices.

13 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 3. Document ID: US 5220762 A

L2: Entry 3 of 4

File: USPT

Jun 22, 1993

US-PAT-NO: 5220762

DOCUMENT-IDENTIFIER: US 5220762 A

TITLE: Fibrous mat-faced gypsum board in exterior and interior finishing systems for buildings

DATE-ISSUED: June 22, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lehnert; Charles W.	Stone Mountain	GA		
Randall; Brian G.	Stone Mountain	GA		

US-CL-CURRENT: 52/408; 264/133

## ABSTRACT:

Gypsum-containing boards, uses for these boards, and methods for making them are provided. The board includes a set gypsum core having a fibrous glass at disposed thereon. The core includes a water-resistant additive in at least a minimum amount sufficient to impart to the board an ASTM C-473 water absorption value of less than about 10%. This additive includes organohydrogenpolysiloxane resin added with a portion of the mixing water, or otherwise added in neat form to the process for preparing the slurry.

12 Claims, 16 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5



Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 4. Document ID: US 5030502 A

L2: Entry 4 of 4

File: USPT

Jul 9, 1991

US-PAT-NO: 5030502

DOCUMENT-IDENTIFIER: US 5030502 A

TITLE: Cementitious construction panel

DATE-ISSUED: July 9, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Teare, John W.	Hamilton	OH	45011	

US-CL-CURRENT: 428/193; 428/192, 428/70, 428/703

## ABSTRACT:

The invention relates to a light-weight concrete construction panel having a layer of reinforcing mesh bonded to each of the two faces. Such panels are used on walls and floors as backerboards for the installation of ceramic tile and other facing materials. In this invention the web of mesh or other fabric wraps around the edge of the panel and is bonded in place on the top and bottom faces. The strip of mesh covering the edge is left unbonded and open; when two panels are placed abutting each other the unbonded strip of mesh along the edge captures the mortar that is applied to fill the joint. This permits improved edge-to-edge bonding.

10 Claims, 7 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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ABDC	Draw Desc	Image
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